Feminine Security Using Android Application

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Abstract: Smart Phone has become a part of routine in our day to day life. People using smart phones increased rapidly. The proposed paper is for the safety of women/teenagers. In this paper, we are proposing a model consisting of two apps, one to monitor activities by victim and other to track the activities of victim. The monitoring app has storing contacts and a panic button that can be activated by a single click, wherever there is an emergency. A single click on panic button identifies the location of victim through smart phone's GPS or network provider and sends an alert message with victim's current location. The tracker app tracks each and every movement of the victim from the moment the panic button is initiated and till the victim stops the button. When panic button is pushed on victim's phone, a notification is sent to the selected contacts and whenever the contact clicks on the notification it allows the contacts to trace the victim. This proposed app can be useful for parents and family to track their children (especially teenagers).

Keywords: GPS, Panic button, network provider, Victim.

1. INTRODUCTION

In the present scenario Women are competing with men in every prospect of society. But the women have fear of getting harassed and killed. All these types of women harassment cases are increasing day by day. So it is very important to ensure the safety of women. This is the small contribution taken by us which will provide safety for women with an android application. In this paper the proposed model is an android application which helps women/teenagers to protect themselves by using a Smartphone. It lets your friends and family know your current location via GPS Tracker, if android device is connected to the network.

2. ARCHITECTURE DIAGRAM

Women referred in the diagram represents the victim. Location of the victim is received through GPS.

In case if GPS in the mobile is turned off, it receives location from the local network provider.

After the victim initializing a panic button, the location of the victim along with an alert message is sent to the registered contacts.

GSM will send the message to the registered contacts.

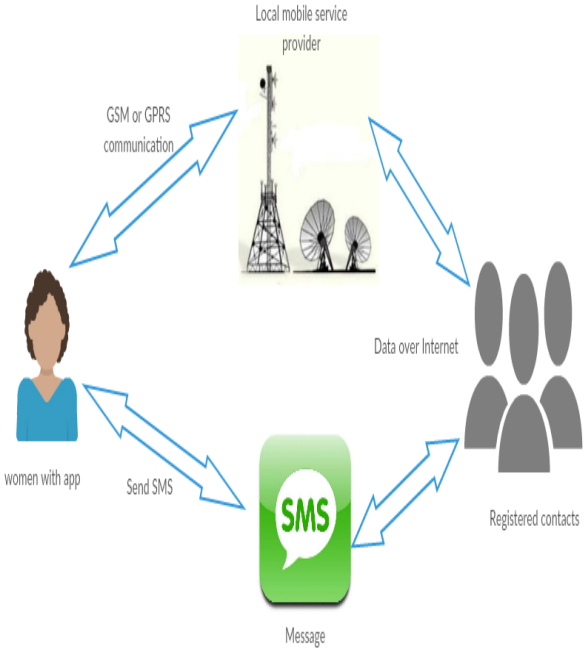

Fig-1: Architecture diagram

Panic button is provided for emergency alert. When Panic button is pressed GSM will urgently send alert message.

3. SOFTWARE

i) Network Provider: A business or organization that provides customers with access to a telecommunications network or to the internet. It operates in 2G/ 3G/ 4G frequencies band.

ii) GSM: GSM stands for global system for mobile communication. GSM is a cellular technology which is used for voice and data transmission. GSM operates in-band of 900 MHZ to 1.8 GHZ. Through GSM, it is possible to transmit SMS.

iii) GPS: GPS stands for global positioning system. GPS gives a position of a device in terms of latitude longitude and altitude.GPS is used to track moving device using satellite signal. When GPS is used there is communication between GPS transceiver and GPS satellite.

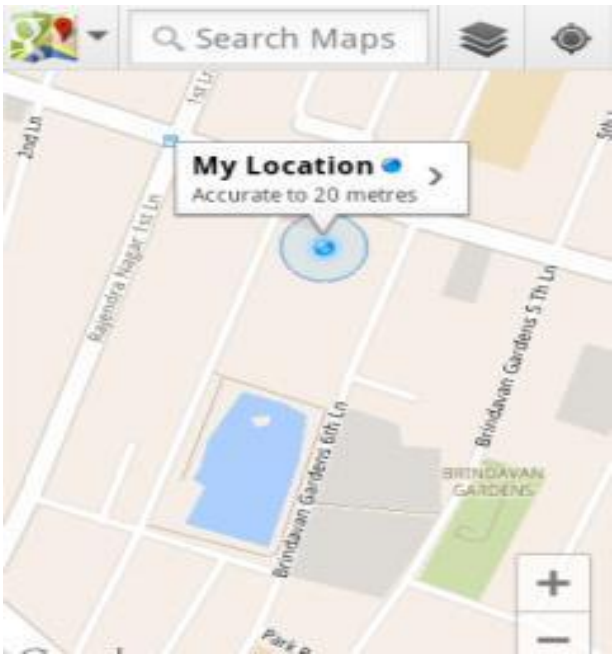

Fig-2: Sample GPS Location

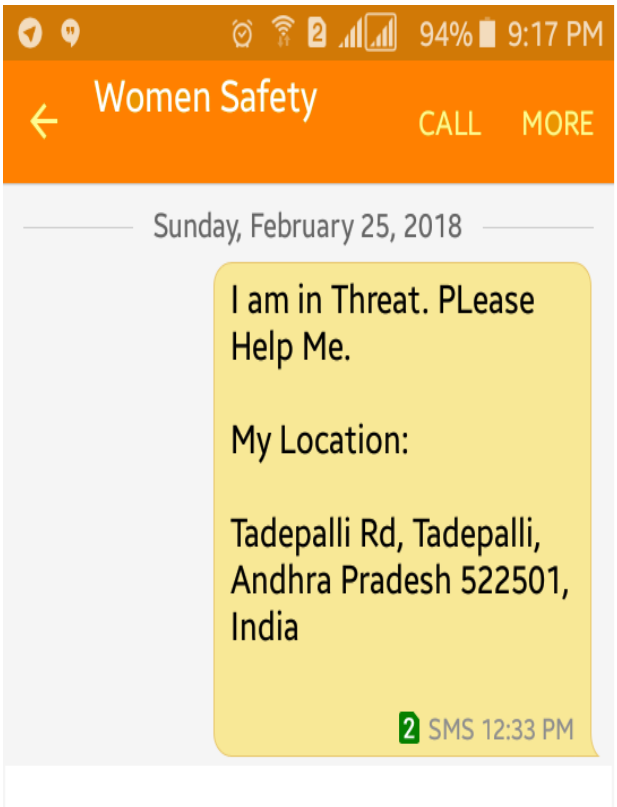

Fig-3: Sample SMS

4. WORKING

As soon as the victim initiates the panic button, the location of the victim is received from the GPS. If the GPS is turned off the location is received from the network service provider. Location is received in the form of latitude and longitude values from the Google server. These latitude and longitude values are again sent to the Google server to get the address based on the latitude and longitude values. The address is sent to the initially registered contacts.

A notification is also sent to the registered contacts, as soon as the registered contact clicks on the notification the location of the victim can be traced in the Google maps until the victim initiates the stop button.

5. CONCLUSION

The proposed system is to ensure the security of the women in the society by providing an android app which sends the alert message and current address to the registered contacts which allows tracing the victim's present location.

REFERENCES:

1. Prof. R. A. Jain "Women's safety using IOT", International Research Journal of Engineering and Technology. Vol.04, Issue.05, May-2017
2. B.Chougula, "Smart girls security system," International Journal of Application or Innovation in Engineering & Management, Volume 3, Issue 4, April 2014.